

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ~~spray type drum washing~~laundry machine comprising:
a cabinet;
a ~~tub-drum~~ mounted in the cabinet, ~~and adapted to contain wash water therein;~~
a ~~circulation line connected between a portion of the tub and another portion of the tub to~~
~~circulate wash water through the tub;~~
a ~~pump installed at the circulation line, and adapted to forcibly feed wash water through~~
~~the circulation line for the circulation of the wash water through the tub; and~~
atomizing means provided at the circulation line, ~~and a~~ mist generating device adapted to
~~atomize the wash~~convert water fed through the circulation line ~~to mist,~~ whereby the wash-water
~~to circulate through the tub is supplied in an atomized state~~as a mist into the ~~tub~~drum; ~~and~~
a mist transporting conduit having an inlet and an outlet, the inlet being connected to the
mist generating device and the outlet arranged to deliver mist to the drum.

2. (Currently Amended) The ~~spray type drum washing~~laundry machine according to
claim 1, wherein the ~~atomizing means~~mist generating device comprises:
a case ~~arranged at the circulation line, and adapted to allow wash water to pass~~
~~therethrough;~~
diffusion means provided at an inlet portion of the case, and adapted to diffuse wash
water ~~to be introduced into the case, thereby~~ atomizing-converting the wash water to mist; and
a blowing fan adapted to forcibly feed, into the ~~tub~~drum, the ~~atomized wash water~~mist
emerging from the diffusion means.

3. (Currently Amended) The ~~spray type drum washing~~laundry machine according to
claim 2, wherein the diffusion means comprises:
at least one centrifugal plate adapted to be rotated about an axis passing through a center
thereof by a driving force; and

a diffusion net arranged around the centrifugal plate, and adapted to diffuse wash-water radially projected from the centrifugal plate ~~in an atomized state~~ as mist.

4. (Currently Amended) The ~~spray-type drum washing~~ laundry machine according to claim 3, wherein the at least one centrifugal plate comprises a plurality of centrifugal plates axially spaced apart from one another.

5. (Currently Amended) The ~~spray-type drum washing~~ laundry machine according to claim 3, wherein the centrifugal plate and the blowing fan are rotated by a dual-shaft motor adapted to generate the driving force.

6. (Currently Amended) The ~~spray-type drum washing~~ laundry machine according to claim 1, wherein the ~~atomizing means~~ mist generating device comprises:

a case ~~arranged at the circulation line~~, and adapted to allow wash-water to pass therethrough;

at least one centrifugal plate arranged in the case, and adapted to centrifugally radially project the wash-water introduced into the case;

a diffusion net arranged around the centrifugal plate, and adapted to ~~atomize~~ convert the wash-water centrifugally radially projected from the centrifugal plate to mist when the wash water passes therethrough;

a blowing fan adapted to forcibly feed, into the ~~tub~~ drum, the ~~atomized wash-water~~ mist emerging from the diffusion net; and

drive means adapted to rotate the centrifugal plate and the blowing fan.

7. (Currently Amended) The ~~spray-type drum washing~~ laundry machine according to claim 1, ~~wherein the circulation line is provided, at an outlet end thereof, with~~ further comprising a diffusion nozzle at the outlet of the mist transporting conduit.

8. (Currently Amended) The ~~spray-type-drum-washing~~laundry machine according to claim 1, further comprising:

a steam generating device installed at the ~~circulation line~~mist transporting conduit, and adapted to heat the ~~atomized-wash-water~~mist emerging from the ~~atomizing-means~~mist generating device, thereby changing the ~~atomized-wash-water~~mist into steam, and to ~~supply~~supplying the steam into the ~~tub~~drum.

9. (Currently Amended) The ~~spray-type-drum-washing~~laundry machine according to claim 8, wherein the steam generating device comprises:

a container arranged at the ~~circulation line~~mist transporting conduit, and adapted to allow the ~~atomized-wash-water~~mist emerging from the ~~atomizing-means~~mist generating device to pass therethrough; and

a heater adapted to heat the ~~atomized-wash-water~~mist passing through the container.

10. (Currently Amended) The ~~spray-type-drum-washing~~laundry machine according to claim 9, wherein the steam generating device further comprises:

temperature sensing means adapted to measure an internal temperature of the container.

11. (Currently Amended) A ~~spray-type-drum-washing~~laundry machine comprising:

a cabinet;

a tub ~~mounted~~located in the cabinet, and adapted to contain wash-water therein;

a drum rotatably mount in the tub;

~~a circulation line connected between a portion of the tub and another portion of the tub to circulate wash-water through the tub;~~

~~a pump installed at the circulation line, and adapted to forcibly feed wash-water through the circulation line for the circulation of the wash-water through the tub;~~

~~atomizing-means~~a mist generating device provided at the ~~circulation line~~, and adapted to ~~atomize the wash~~convert water to mist ~~circulate through the tub;~~ and

~~steam generating means installed at the circulation line, and adapted to heat the atomized wash water emerging from the atomizing means, thereby changing the atomized wash water into steam, and to supply the steam into the tub~~ diffusion nozzle adapted to spray the mist into the drum.

12. (Currently Amended) The ~~spray type drum washing~~laundry machine according to claim 11, wherein the ~~atomizing means comprises:~~

~~a case arranged at the circulation line, and adapted to allow wash water to pass therethrough;~~

~~diffusion means provided at an inlet portion of the case, and adapted to diffuse wash water to be introduced into the case, thereby atomizing the wash water; and~~

~~a blowing fan adapted to forcibly feed, into the tub, the atomized wash water emerging from the diffusion means~~sprayed mist is directed from the top and front end of the drum toward the bottom and rear end of the drum.

13. (Currently Amended) The ~~spray type drum washing~~laundry machine according to claim 1211, wherein the ~~diffusion means comprises~~further comprising:

~~at least one centrifugal plate adapted to be rotated about an axis passing through a center thereof by a driving force; and~~

~~a diffusion net arranged around the centrifugal plate, and adapted to diffuse wash water radially projected from the centrifugal plate in an atomized state~~ a circulation line connected between a portion of the tub and another portion of the tub; and

a pump installed at the circulation line, and adapted to forcibly feed water through the circulation line to circulate the water through the tub.

14. (Currently Amended) The ~~spray type drum washing~~laundry machine according to claim 13, wherein the ~~at least one centrifugal plate comprises a plurality of centrifugal plates axially spaced apart from one another~~ mist generating device is provided at the circulation line and the diffusion nozzle is provided at an outlet end of the circulation line.

15. (Currently Amended) The ~~spray type drum washing~~laundry machine according to claim ~~13~~14, ~~wherein the centrifugal plate and the blowing fan are rotated by a dual shaft motor adapted to generate the driving force~~further comprising a gasket fitted around an access opening of the tub, and wherein the outlet end of the circulation line is extended through a top portion of the gasket.

Claims 16-20. (Canceled)

21. (New) The laundry machine according to claim 1, further comprising a water transporting conduit having an inlet and an outlet, the inlet being adapted to receive water from the drum, and the outlet being connected to the mist generating device.

22. (New) The laundry machine according to claim 21, further comprising a pump arranged at the water transporting conduit.

23. (New) The laundry machine according to claim 1, further comprising a water-supply unit configured to supply water into the drum.

24. (New) The laundry machine according to claim 1, wherein the laundry machine is a washing machine.

25. (New) The laundry machine according to claim 11, further comprising a water-supply unit configured to supply water into the tub.

26. (New) A laundry machine comprising:
a cabinet;
a tub located in the cabinet, and adapted to the contain water therein;
a drum rotatably mounted in the tub;

a mist generating device adapted to convert water into mist; and
a steam generating device adapted to heat the water to change the water into steam.

27. (New) The laundry machine according to claim 26, wherein the steam is directed from the top and front end of the drum toward the bottom and rear end of the drum.

28. (New) The laundry machine according to claim 26, further comprising:
a circulation line connected between a portion of the tub and another portion of the tub;
and
a pump installed at the circulation line, and adapted to forcibly feed water through the circulation line to circulate the water through the tub.

29. (New) The laundry machine according to claim 28, wherein the mist generating device and the steam generating device are provided at the circulation line.

30. (New) The laundry machine according to claim 29, further comprising a gasket fitted around an access opening of the tub, and wherein the outlet end of the circulation line is extended through a top portion of the gasket.

31. (New) The laundry machine according to claim 30, wherein the steam generating device heats the mist to generate steam.

32. (New) The laundry machine according to claim 31, wherein the mist is converted to steam while flowing through the steam generating device.

33. (New) The laundry machine according to claim 26, further comprising a diffusion nozzle configured to spray the mist or the steam.

34. (New) The laundry machine according to claim 26, further comprising a water-supply unit configured to supply water into the tub.